

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/009030

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01Q1/24 H01Q9/04 H04M1/02 H04B1/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q H04M H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 272 356 B1 (DOLMAN RODNEY A ET AL) 7 August 2001 (2001-08-07) column 5, line 24 - column 6, line 3; figure 3	1,13
A	EP 1 329 981 A (SAMSUNG ELECTRONICS CO LTD) 23 July 2003 (2003-07-23) paragraphs '0016! - '0027!; figures 3-5	1,13
A	US 5 561 437 A (KRENZ ERIC L ET AL) 1 October 1996 (1996-10-01) abstract; figure 1	1,13
A	EP 1 107 352 A (NOKIA MOBILE PHONES LTD) 13 June 2001 (2001-06-13) paragraphs '0011! - '0017!; figure 1	1,13
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

1 October 2004

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11/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93/18591 A (MOTOROLA INC): 16 September 1993 (1993-09-16) page 3, line 14 - page 4, line 23; figure 1  -----	1,13

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Information on patent family members

International Application No  
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